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# Rice Situation

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U.S. Department of  
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# THE RICE SITUATION

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March 21, 1978

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The *Rice Situation* will be published in October 1978.

## SUMMARY

### High Prices Encourage Rice Expansion in 1978

The highest prices in 3 years highlight the 1977/78 U.S. rice marketing year. Smaller supplies, larger export sales, and prospects for the first reduction in ending stocks since 1974/75 are responsible for the price upswing.

On January 1 rice growers indicated they would increase acreage about a tenth to 2.5 million acres. The projected increase reflects a strong rice price relative to competing crops. However, since then, continued strong prices and a vastly improved irrigation water situation in California suggest that actual plantings may be larger than January intentions.

Stocks at the start of the 1977/78 season totaled a record large 40 million cwt. However, nearly half of the total stocks were tied up in inventories of the Commodity Credit Corporation (CCC). And reduced plantings and less favorable growing conditions cut the 1977 rice crop 14 percent to 99 million cwt. Thus, this season's supply was down about a tenth from 1976/77's record 153 million cwt.

Domestic use in 1977/78 is likely to rise modestly. While food use should continue its moderate uptrend, brewers' use may decline for the first time since 1970/71. Smaller supplies in major exporting countries and some expansion in world consumption have pushed rice exports above last year's pace and the total for the season will be close to the 1974/75 record of 69.5 million cwt. As a result, total disappearance this year will be 10-15 percent greater than production, and stocks will decline sharply for the first time since 1974/75.

These developments—especially the very strong early season commercial export demand—have lifted prices more than \$4 per cwt. above a year ago. Farm prices have leveled off at around \$11 per cwt., and will likely remain near that level for the remainder of the season. These prices have triggered some sales of CCC stocks for unrestricted use.

Title VII of the Food and Agriculture Act of 1977 sets the stage for the 1978 rice program.



Major provisions include an allotment of 1.8 million acres; an estimated target price of \$8.53 per cwt.; and an estimated loan rate of about \$6.42.

The Act also provides for a set-aside program and land diversion payments; however, determinations have not been made for the 1978 crop.

## THE 1977/78 SITUATION

### 1977/78 Rice Supply Smaller

Rice farmers in 1977 responded to faltering prices by reducing their plantings 9 percent to 2.3 million acres. In addition, reduced yields cut the size of the 1977 crop and the harvest of 99 million cwt. was off 14 percent from last year. Long and medium grain production declined 11 and 29 percent, respectively, but the short grain crop was up 22 percent.

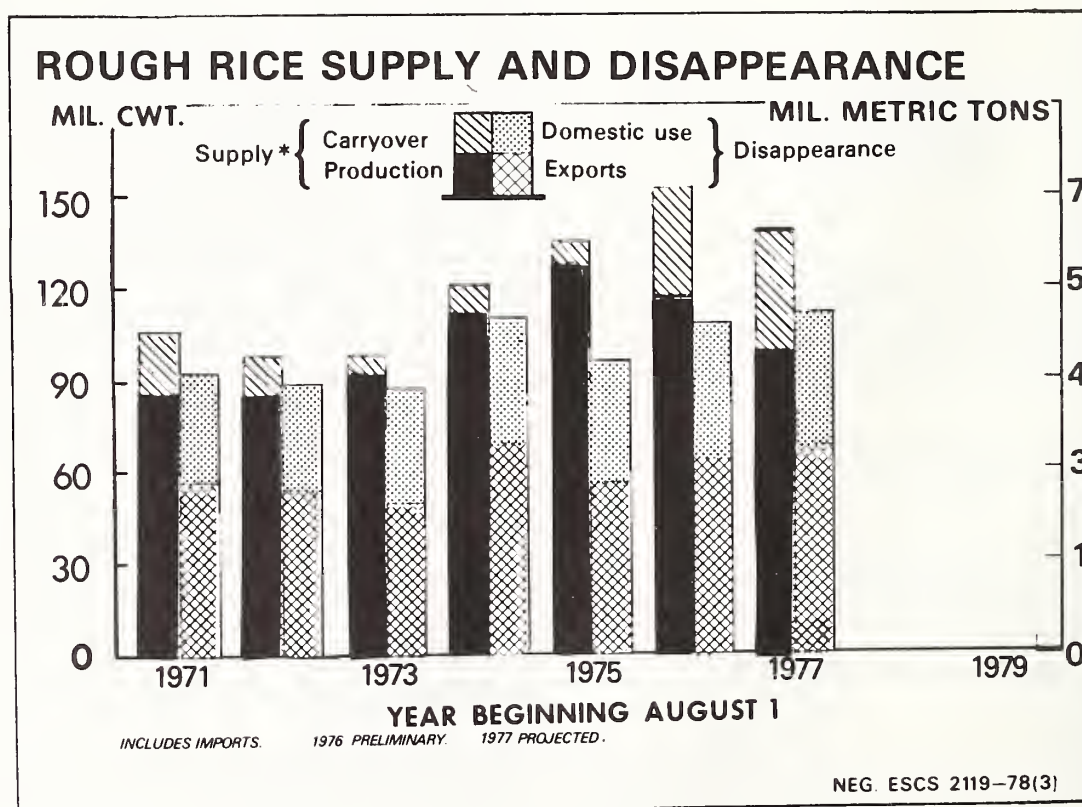
The 1977 rice crop was down in all major rice-producing States. California producers cut medium grain acreage nearly in half in response to reduced supplies of irrigation water, but they increased short grain acreage by a quarter which assured sufficient supplies for the short grain markets. Pro-

longed damp weather hampered harvest operations in Louisiana and Arkansas, and reduced yields of long and medium grain rice.

Combining production with record August 1 carryin stocks, the total 1977/78 rice supply was nearly 140 million cwt., down about a tenth from the record supply of 1976/77 (table 1). Long and medium grain supplies declined while short grain supplies were up about 10 percent.

### January 1 Stocks Lower Strong August-December Use

January 1 rice stocks (rough equivalent) totaled 85 million cwt., 20 percent below last year's record high. Sharply higher milled stocks were the result



of sizable inventories awaiting loading at port facilities. In turn, farm-stored rough rice stocks were down a hefty 60 percent (table 8). Strong prices prompted heavier early season farm selling and, of course, the smaller 1977 crop also reduced stocks available for farm storage. January 1 farm stocks declined in all States with Louisiana showing the largest drop, 75 percent. Long and medium grain rough stocks were down 20-25 percent from last year's level while short grain inventories declined about a tenth, a reflection of the larger 1977 short grain crop in California.

On January 1, the Commodity Credit Corporation (CCC) owned over 18 million cwt. and 16 million cwt. were under loan. These accounted for about 40 percent of total rice supplies. When prices rose, these stocks became eligible for resale. Thus, by early March, about 4 million cwt. of Government rice had been sold. The CCC sales policy began in December by limiting sale offerings to lower grades. By mid-February, the offers on lower grades were withdrawn and a system of progressively offering higher grades was introduced. A small amount of the 1976 crop (45,000 cwt.) remains under the extended loan reserve program.

Rice disappearance during August-December (milled) was about 4 percent above a year ago. Most of the increase was due to heavy early season exports. Long and medium rice accounted for 90 percent of total August-December utilization. Short grain disappearance doubled from last year's level due to unusually heavy exports to Italy.

## Domestic Use May Show Small Gain

Domestic use in 1977/78 is projected to increase modestly from last year. During August-December, domestic rice consumption was running about 10 percent above the same period last year; but rice used by brewers was considerably smaller (table 3). Last year's price relationship between brewers' rice and competing ingredients caused some unusual switching to rice in brewing formulas (table 13). But the price situation has reversed this season. Also, the growth in production of major brewers using rice may be off substantially from the rates of recent years. Brewers' use during the first half of the season was off about 11 percent, pointing to the prospect that annual use may decline for the first time in 7 years.

## Exports Near Record Level

U.S. rice exports during August-December moved at a record-setting pace of 32.6 million cwt. (rough basis). About 2.5 million cwt. were carry-over sales from the 1976/77 marketing year. Although the tempo has slowed somewhat, total 1977/78 exports are still expected to be near the record 1974/75 level of 69.5 million cwt. In early March, export commitments (shipments plus outstanding sales) were about 80 percent of the annual forecast.

A number of countries accelerated purchases of U.S. rice early this season when available supplies from other exporters tightened. There were sharp

Rice stocks by class January 1, 1977 and 1978

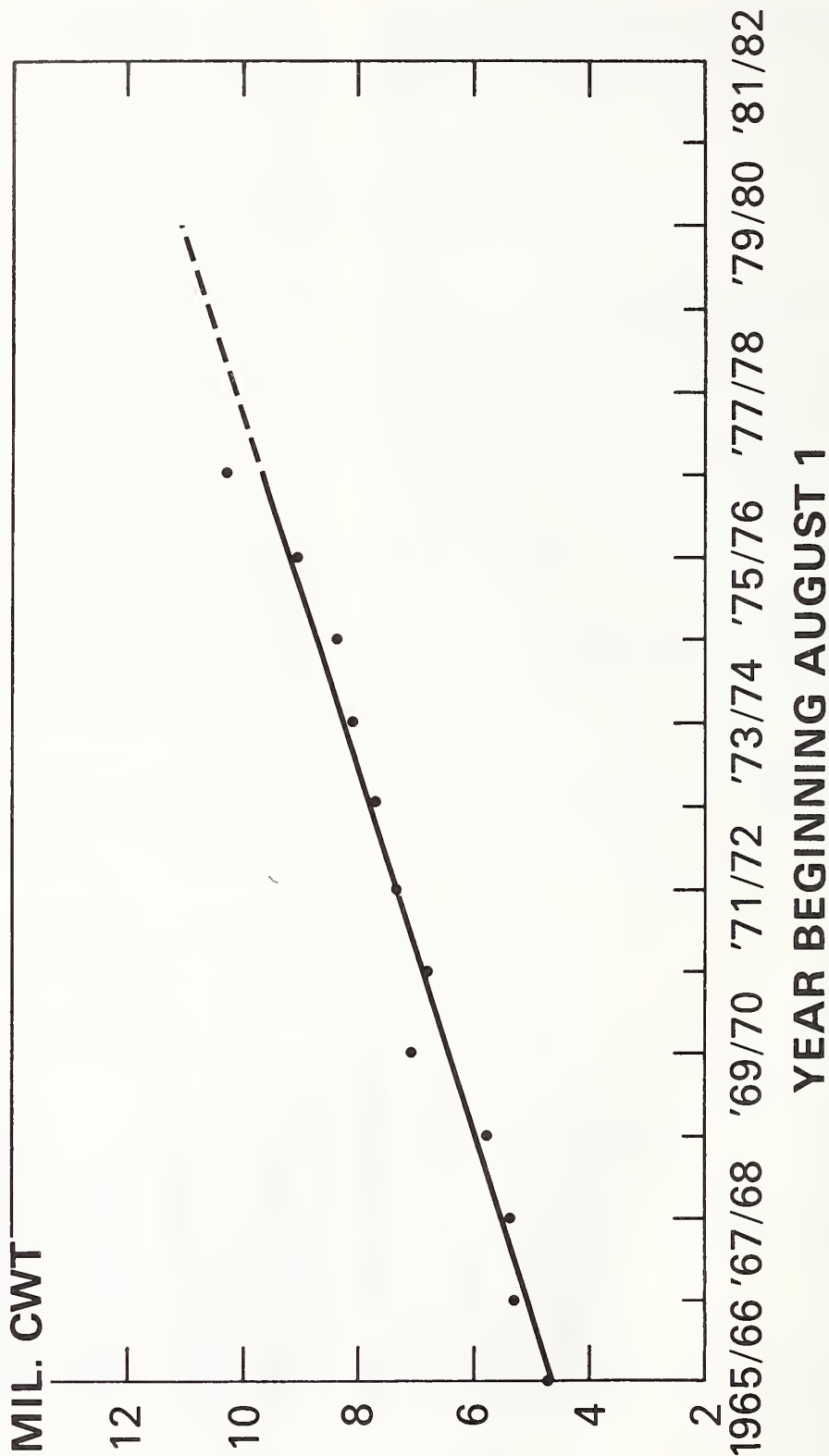
Class	Rough		Milled <sup>1</sup>		Total	
	1977	1978	1977	1978	1977	1978
<i>1,000 hundredweight</i>						
Long .....	54,987	42,263	3,674	5,536	58,661	47,799
Medium .....	36,532	25,689	1,513	2,729	38,045	28,418
Short .....	8,629	7,824	836	612	9,465	8,436
Total .....	100,148	75,776	6,023	8,877	106,171	84,653

<sup>1</sup> Rough equivalent.

Rough rice: U.S. supply by class August 1, 1976 and 1977

Item	1976				1977			
	Long	Medium	Short	Total	Long	Medium	Short	Total
<i>1,000 hundredweight</i>								
Carryover .....	16,182	16,979	3,714	36,875	16,117	20,786	3,598	40,501
Production .....	70,051	36,792	8,805	115,648	62,206	26,272	10,745	99,223
Total supply .....	86,233	53,771	12,519	152,523	78,323	47,058	14,343	139,724

# U.S. RICE: ANNUAL BREWERS USE (ROUGH EQUIVALENT)



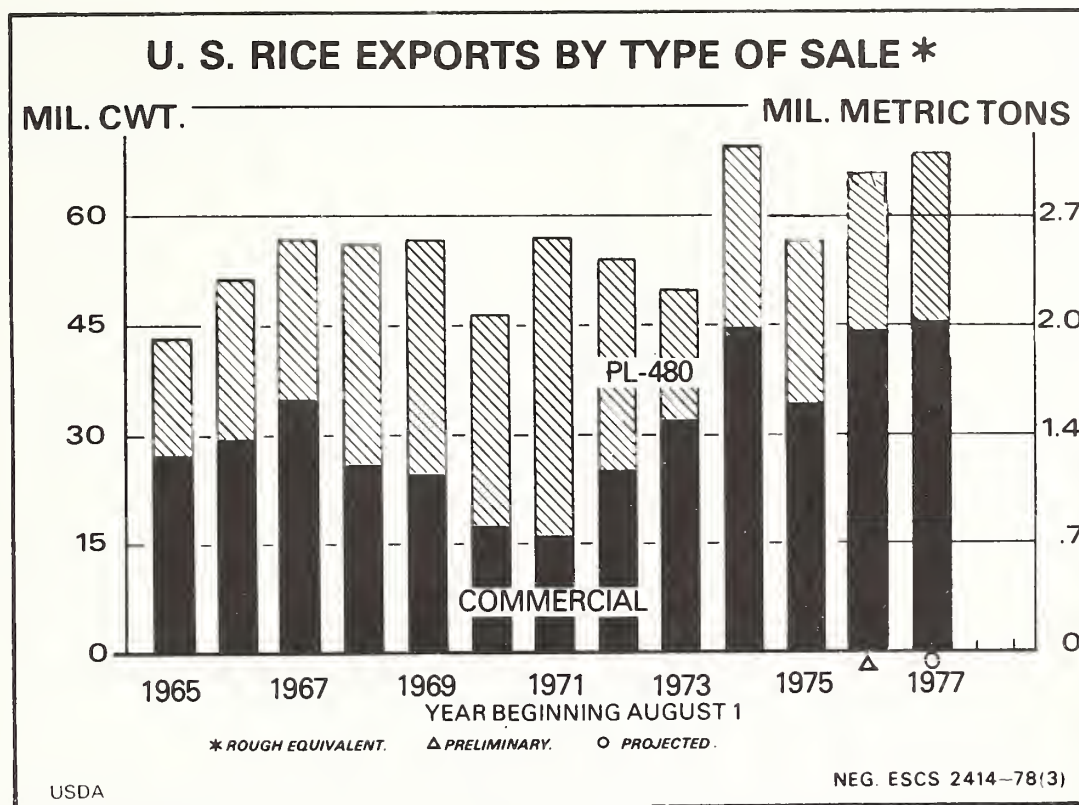
$$Y = 4.66 + 0.46X. \quad (R^2 = 0.96)$$

1976/77 PRELIMINARY.

USDA

NEG. ESCS 3034-78 (3)





increases in purchases by the European Community (EC). Italy, normally an exporter, bought large quantities of rough rice for domestic milling and resale. Purchases by OPEC countries, especially Saudi Arabia, were also at a high level and exports to West Africa continued strong.<sup>1</sup>

Commercial rice sales accounted for a major share of total export commitments during August-December. P.L. 480 commitments were largely confined to sales carried over from last season. A pickup in P.L. 480 programing began in February with sales to Indonesia and additional agreements are expected to push total sales to around 600,000 metric tons.

Total rice disappearance will be substantially larger than the 1977 harvest so stocks at year's end will decline for the first time since 1974/75. The CCC stocks acquired from the 1975 crop will be reduced if market prices remain above the resale floor, so perhaps two-thirds of next August's carry-over could be in private hands.

#### Rice Prices Highest Since 1974

Farm prices early in the 1977/78 marketing year were running about \$8 per cwt., well above year-earlier levels reflecting the strong export sales and

Rough rice: Monthly prices received by farmers, 1973-78<sup>1</sup>

Month	1973/74	1974/75	1975/76	1976/77	1977/78
<i>Dollars per cwt.</i>					
August . . .	10.90	10.20	9.83	6.65	8.02
September .	13.30	10.90	9.19	6.56	9.13
October . .	14.80	11.30	8.87	6.48	8.92
November .	16.70	11.60	8.59	6.46	10.20
December .	15.50	10.90	8.51	6.57	11.00
January . .	15.80	10.80	7.95	6.79	10.70
February .	16.90	11.30	7.54	6.87	<sup>2</sup> 11.40

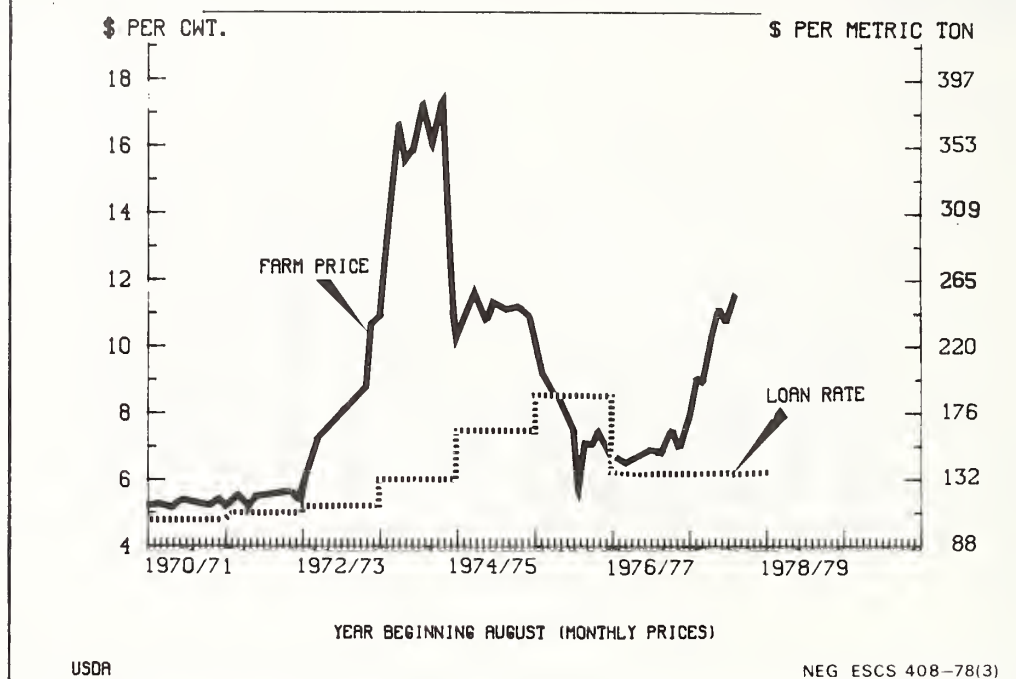
<sup>1</sup> Prior to August 1976 prices are mid-month. <sup>2</sup> Preliminary.

reduced supply. By November, prices climbed above \$10 per cwt. and continued up to \$11 in December. Prices remained strong into March although the rate of increase diminished. The tight supply/demand situation is expected to firm prices around the \$11 per cwt. level until new crop supplies become available. The estimated season average price of \$9.00 to \$9.50 per cwt. is more than \$2 above last year.

These price levels triggered CCC sales offerings from their 18.5 million cwt. inventory of the 1975 crop rice. Resale policy stipulates the March minimum market price at \$10.04 per cwt. (155 percent of the \$6.19 loan rate plus 45 cents carrying charge). About 4 million cwt. of rough rice have been sold by CCC since December 1. About 20 million cwt.

<sup>1</sup>For further details see World Rice Situation, page 11.

# ROUGH RICE FARM PRICES AND LOAN RATES



have gone under loan thus far, about the same as last season, but all will likely be redeemed before maturity since market prices are far above loans. The national weighted average price during the first 5 months of the marketing year (August-December) was \$9.08 per cwt., above the \$8.25 per cwt. target price, so no deficiency payments were made on the 1977 crop.

## Retail Rice Prices Rise; Farm-Retail Spread Narrows

Retail rice prices were relatively stable for most of 1977. However, the pressure of higher farm prices is beginning to show up at the retail market. Retail prices in early 1978 were running about 4 cents per pound above last fall (table 12).

Rice, long grain: Retail price farm, value and farmer's share of retail price, by quarters, 1967-78

Year	Retail Price				Net Farm values <sup>1</sup>				Farm-retail spread				Farmer's share			
	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.
	Cents per lb.				Cents per lb.				Cents per lb.				Percent			
1967	21.8	21.9	21.9	22.0	7.5	7.5	7.0	7.4	14.3	14.4	14.9	14.6	34	34	32	34
1968	22.0	22.1	22.1	22.1	7.7	7.8	7.4	7.3	14.3	14.3	14.7	14.8	35	35	33	33
1969	22.3	22.4	22.5	22.6	6.9	7.0	6.7	7.2	15.4	15.4	15.8	15.4	31	31	30	32
1970	22.9	23.2	23.1	23.3	7.2	7.3	7.2	7.4	15.7	15.9	15.9	15.9	31	31	31	32
1971	23.6	23.8	24.0	24.0	7.8	7.7	7.7	7.7	15.8	16.1	16.3	16.3	33	32	32	32
1972	24.1	24.0	23.9	24.0	8.1	8.0	8.2	10.6	16.0	16.0	15.7	13.4	34	33	34	44
1973	25.2	26.7	28.2	42.9	11.6	12.3	15.1	22.7	13.6	14.4	13.1	20.2	46	46	54	53
1974	51.5	53.2	52.8	49.0	24.2	22.3	16.9	15.4	27.3	30.9	35.9	33.6	47	42	32	31
1975	47.4	47.4	47.4	46.1	16.1	16.1	14.5	12.5	31.3	31.3	32.9	33.6	34	34	31	27
1976	44.7	43.9	43.0	41.1	10.5	10.2	10.0	9.4	34.2	33.7	33.0	31.7	23	23	23	23
1977	40.1	39.5	39.8	40.5	9.9	10.4	11.0	14.5	30.2	29.1	28.8	26.0	25	26	28	36

<sup>1</sup> Payments to farmers for equivalent quantities of rough rice (gross farm value) minus imputed value of by-products obtained in processing.

Source: National Economic Analysis Division, ESCS.

While the average retail price increased less than 2 percent from July-September to October-December, the farm value shot up 32 percent. For October-December, the average farm-retail spread had been reduced to 26 cents per pound, nearly 20

percent below a year ago and the lowest since 1973. However, higher processing and distribution costs and a widening of the spread will mean higher retail prices to consumers during the remainder of the marketing year.

## OUTLOOK FOR 1978/79

### 1978 Program Provisions

Provisions for the 1978 Rice Program are stipulated in Title VII of the Food and Agriculture Act of 1977.<sup>2</sup>

•The 1978 target price is last year's target price (\$8.25 per cwt.) adjusted by the change in the 2-year moving average of variable, machinery ownership, and farm overhead costs of production during 1975-77—estimated at \$5.92, \$5.85, and \$6.48, respectively. The 2-year moving averages are \$5.89 or  $(5.92+5.85) \div 2$  and \$6.17 or  $(5.85+6.48) \div 2$ . The difference added to the 1977 target price of \$8.25 gives the 1978 target price of \$8.53.

•The 1978 loan rate bears the same relation to the previous year's rate as the 1978 and 1977 target prices. Thus, the target price ratio is 1.034 or  $(8.53 \div 8.25)$ . This applied to the 1977 loan of \$6.19 gives the 1978 rate of \$6.40 per cwt. The loan rate could be reduced in order to improve the competitive position of U.S. rice in world markets, but not below \$6.31 per cwt.

•Disaster payment rates will be one-third of the target price or \$2.84 per cwt. For low yields, payments will be made on allotment acreage on any shortfall below 75 percent of the established farm yield. For prevented plantings, payment will be based on the portion of the allotment that was affected and the farm yield.

•The 1978 national allotment is 1.8 million acres, apportioned on the basis of 1975 farm allotments.

•Producers are not restricted on the acreage planted but they receive program benefits—loan and target price—only on allotment acres, not in excess of planted acreage.

•Target price payments will be the difference between the target price and the higher of (1) na-

tional weighted average market price for the first 5 months of the marketing year, and (2) the loan rate.

•The 1977 Act does provide for allotment if it is determined that supplies will be excessive. The Act also provides for a set-aside program and land diversion payments; however, determinations have not been made for the 1978 crop.

### Growers Intend To Plant More in 1978

After 2 years of reduced rice acreage, growers indicated on January 1 they would increase 1978 plantings 10 percent to 2.5 million acres. Acreage was up in all States, with Mississippi, California, and Louisiana showing the largest gains. On a class basis, there were increases of 7 percent for long grain, 18 percent for medium, and 3 percent for short. California growers indicated they will switch back to their normal planting ratio of 60 percent medium grain and 40 percent short grain. These intentions reflected high rice prices, particularly in relation to alternative crops. Also, California growers should have ample water for irrigation after last year's drought-reduced supplies.

Rice prices compared with soybeans and cotton<sup>1</sup>

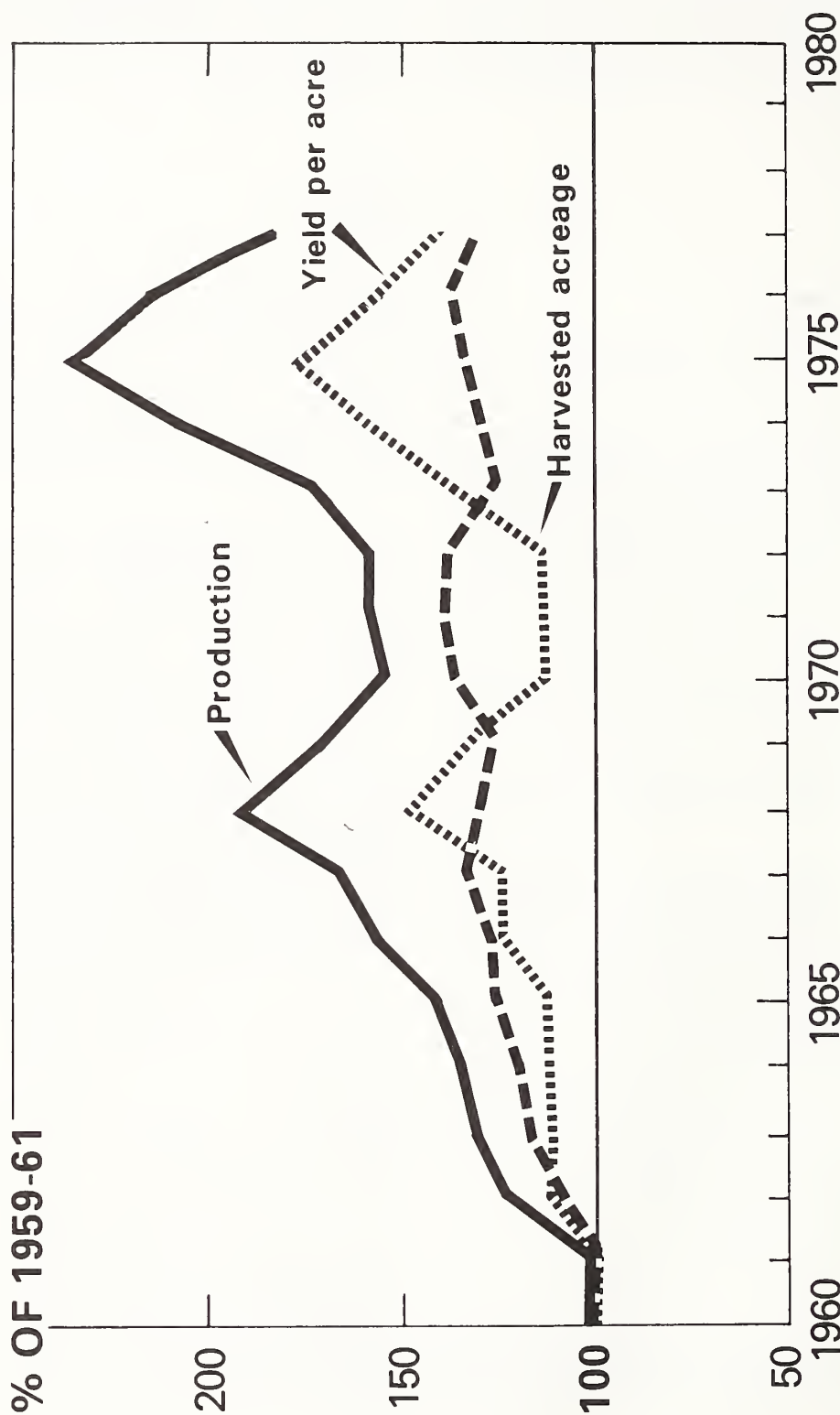
Item	1974	1975	1976	1977	1978
	Percent				
Soybean/rice . . . . .	60	84	99	171	79
Cotton/rice . . . . .	308	288	686	943	428

<sup>1</sup> Based on mid-February farm price per cwt. except for 1977 which is a monthly price.

With rice prices continuing to maintain their strong position and the California irrigation situation vastly improved, plantings are likely to be greater than the early intentions and could approach the record acreage of 2.8 million in 1975. By mid-March, Texas and Louisiana growers were underway with their planting operations.

<sup>2</sup>For a detailed discussion see "Commodity, Program Provisions Under the Food and Agriculture Act of 1977," James Johnson and Milton R. Ericksen, Agr. Econ. Rpt. No. 389, Econ. Stat. and Coop. Serv., Oct. 1977.

# RICE ACREAGE, YIELD, AND PRODUCTION\*



\* DOES NOT INCLUDE MINOR STATES.

USDA

NEG. ESCS 483-78(3)



## WORLD RICE SITUATION<sup>3</sup>

### 1977/78 World Rice Crop Up From Last Year<sup>4</sup>

The 1977/78 world rice crop is estimated at a record 363 million metric tons, up 4 percent from last year (table 19). The recovery from last year's slump is due mainly to relatively good growing conditions in Bangladesh, India, Japan, South Korea, and the People's Republic of China (PRC), who account for over two-thirds of the world's output. Unfavorable growing conditions hampered harvests in the major exporting countries of Burma and Thailand and the major importing countries of Indonesia, Malaysia, and Iran.

### World 1978 Rice Trade May Ease; 1977/78 Ending Stocks May Rise<sup>5</sup>

Calendar year 1978 rice trade is estimated down 10 to 15 percent from last year's record 9.7 million metric tons. Burma, Italy, and Thailand are expected to export less rice in 1978 because of smaller supplies.

Situations vary among the leading importers. Bangladesh, South Korea, and Sri Lanka are expected to import less in 1978 because of larger domestic harvests. On the other hand, Indonesia, the largest importer, is expected to continue to import heavily. In late 1977, Indonesia purchased from several countries which normally do not export rice, such as Japan (100,000 tons), Taiwan (200,000 tons), South Korea (70,000 tons), and the Philippines (25,000 tons).

World ending rice stocks for 1977/78 are expected to be about 30 percent above last year's reduced level. Ending stocks will be larger in Japan, Philippines, Bangladesh, and South Korea and may be lower stocks in the United States, Thailand, Brazil, West Malaysia, and Pakistan.

<sup>3</sup>Based on FAS, World Grain Situation Review 1977/78 and initial prospects for 1978/79, FG-2-78, February 16, 1978 and FG-24-77, December 19, 1977.

<sup>4</sup>Production is reported as rough rice but milled is reported for stocks and trade. 1977/78 rice production represents the crops harvested in the last half of 1977 and early 1978 in the Northern Hemisphere, and the crop harvested early in 1978 in the Southern Hemisphere. Trade is on a calendar-year basis. Chances are two out of three that the final rice production estimate will not differ by more than about 2 percent from the above estimate.

<sup>5</sup>Stocks data are based on an aggregate of differing local marketing years and should not be construed as representing world stock levels at a fixed point in time. Stocks data are not available for all countries and exclude those such as Burma and PRC.

### Situation in Major Countries

The PRC's rice production series for 1964 through 1977 has been revised by USDA, following an official Chinese Government release for the 1976 crop. The revised 1976/77 production of 125.5 million metric tons was 7.5 million tons larger than earlier estimates. The 1977/78 crop is projected at 127.5 million tons, slightly above last season's estimate.

India's 1977/78 rice crop is estimated at a record 74.3 million tons, 16 percent above last year. The 1977/78 growing season was aided by timely arrival of the monsoon rains and even distribution of rainfall. Expanding plantings of high-yield rice varieties, increased fertilizer use, and below normal crop losses to pests and plant diseases also fostered the bumper crop.

Indonesia's 1977/78 rice production is estimated at 22.4 million tons, down 4 percent from 1976/77 because of substantial damage from drought, pest infestations, and plant disease.

Japan's 16.3-million-ton rice crop is more than a million and a half tons larger than the 1976/77 output and is estimated to increase Japan's November 1978 carryout to about 4.5 million tons, the highest level since 1971. With increasing rice stocks and declining rice consumption, the government's rice production plan for 1978 is designed to cut production by 1.7 million tons to about 14.6 million tons. In the past, diversion payments have been used to get rice producers to plant alternative crops.

Thailand's 1977/78 crop was damaged by last summer's drought and is estimated at 15 million tons, down 5 percent from a year earlier. Thailand is moving to limit the rate of exports to ensure domestic needs until more is known about the size of the spring crop. Thailand's 1978 exports are projected at 1.5 million tons compared with the record 2.9 million tons in 1977.

South Korea's 1977 crop, estimated at a record 8.3 million tons, is up 1.1 million tons from the previous record of 1976/77. Even though rice consumption is forecast to increase more than 10 percent in 1977/78, ending stocks are projected to increase further to 1.2 million tons by next November.

Bangladesh's 1977/78 production is forecast at 18.8 million tons, more than 1 million tons above the 1976/77 production level. Thus, calendar 1978 imports will be down sharply to about 300,000 tons from the 500,000 tons in 1977.

The Philippines estimates its 1977/78 rice production at a record 6.9 million tons. Production has increased in each of the last five seasons. The tran-

sition from a substantial importer of rice to an exporter in 1977 is attributable mainly to newly developed varieties, favorable weather, and improvement and expansion of irrigation systems.

Brazil's rice crop, to be harvested in February-May, is forecast at 7.5 million tons, down from 1976/77's output of 8 million tons, because of extensive drought. Domestic consumption is expected to exceed production in the upcoming April-March marketing year, and therefore exports and ending stocks are both expected to decrease.

#### World Rice Prices Increasing

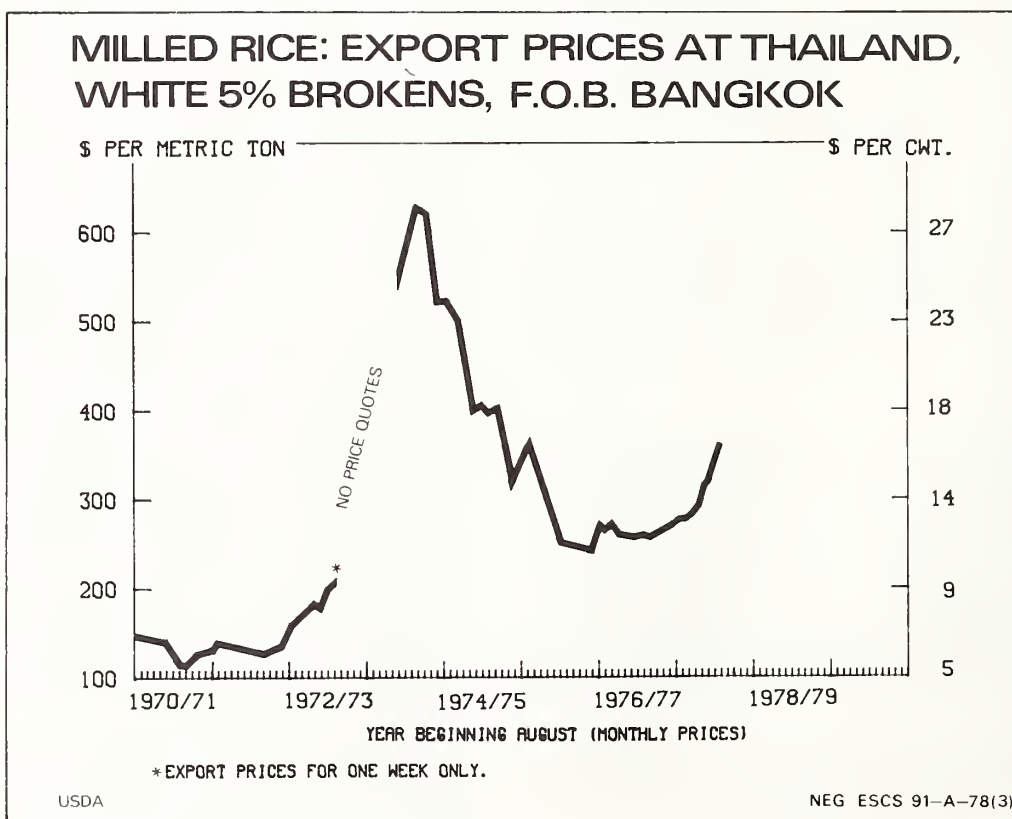
Even with a record world crop and a reduction in world trade, world rice price quotations have risen sharply in recent months. For example, Bangkok, f.o.b. white 5-percent broken, quoted at \$294 a ton in November, rose to \$338 by January 1978, a 15-percent jump. Correspondingly, U.S. No. 2 long grain f.o.b. mill Houston, quoted at \$498 a ton in November, rose to \$551 by January 1978, an 11-percent increase.

Thai price quotations also increased sharply in

Rice export prices for Thailand and the United States

Crop year	Bangkok, f.o.b. white 5% broken	U.S. No. 2 long grain f.o.b. mill Houston
<i>Dollars per metric ton</i>		
1976/77		
August .....	243	342
September .....	266	320
October .....	270	325
November .....	259	326
December .....	258	311
January .....	259	305
February .....	257	306
1977/78		
August .....	275	354
September .....	275	364
October .....	278	403
November .....	294	498
December .....	324	532
January .....	338	551
February .....	374	551

Note: This table indicates the direction of U.S. and Thailand rice prices, but should not be taken to imply that the types of rice specified above are of comparable quality.



mid-February even though the outlook for the spring harvested crop has improved. Reduced availabilities from traditional Asian exporters and more than the usual amount of an uncertainty surrounding the short-term export availability from the PRC and Thailand is expected to result in continued strength in Thai export quotations in the months ahead.

Increases in world rice prices are largely due to several factors working this season in the world rice economy relative to world production, trade, and stocks. First, large increases in world production and stocks occurred in two countries that nor-

mally do not impact on world rice trade—Japan, and India. Second, Thailand, with the exceptionally heavy exports in 1977, has depleted their stocks in the face of a smaller 1977/78 harvest. Consequently, export availability will be short this year. Third, Indonesia, the world's leading rice importer, has a smaller 1977/78 crop and with continued growth in demand, is expected to import 2 million tons for the second year in succession. Fourth, the world's third leading exporter in 1977, Burma, will export less rice in 1978 because of reduced availabilities owing to a smaller 1977/78 harvest.

Table 2.--Rice, rough basis: Supply and distribution, United States, annual 1974-76, August-December 1976-77 1/

Item	Year beginning August			August-December	
	1974	1975	1976 <u>2/</u>	1976 <u>2/</u>	1977 <u>2/</u>
			- - - 1,000 cwt. - - -		
Beginning carryover	3,954	4,050	31,345	31,345	33,351
Farm production	112,386	128,437	115,648	115,648	99,223
Supply	116,340	132,487	146,993	146,993	132,574
Seed	4,003	3,400	3,300	---	---
Exports (rough only)	10	10	994	5	2,639
Used by mills	105,626	95,818	105,685	43,106	47,450
Total disappearance	109,639	99,228	109,979	43,111	50,089
Ending carryover	4,050	31,345	33,351	100,148	75,776
Statistical discrepancies <u>3/</u>	+2,651	+1,914	+3,663	+3,734	+6,709

1/ Includes supply and disappearance of rough rice only. 2/ Preliminary. 3/ Results from losses in storage and handling and errors in estimation.

Table 3.--Rice, milled basis: Supply and distribution, United States, annual 1974-76, August-December 1976-77 1/

Item	Year beginning August			August-December	
	1974	1975	1976 <u>2/</u>	1976 <u>2/</u>	1977 <u>2/</u>
			- - - 1,000 cwt. - - -		
Beginning carryover	2,803	2,164	3,892	3,892	5,156
Mill production	75,965	67,440	76,209	30,719	32,680
Imports	23	31	36	11	23
Supply	78,791	69,635	80,137	34,622	37,859
Food					
Shipments to territories	4,319	4,130	4,597	1,929	1,460
Used by military	164	151	160	100	100
Civilian consumption	16,115	15,288	16,218	5,038	5,568
Total food	20,598	19,569	20,975	7,067	7,128
Used by brewers	6,015	6,391	7,449	3,151	2,754
Exports	50,014	39,783	46,557	20,061	21,576
Total disappearance	76,627	65,743	74,981	30,279	31,458
Ending carryover	2,164	3,892	5,156	4,343	6,401
Per capita civilian consumption (pounds)	7.7	7.2	7.6	---	---

1/ Includes supply and disappearance of milled rice only. 2/ Preliminary.



Table 4.--Rice, rough equivalent: CCC operations and privately held stocks, 1965-77

Crop of-	Placed under price support			Delivered to CCC 1/	At year end July 31				
	Loans	Direct purchases 1/	Total		Total carryover	CCC stocks and loans outstanding			Privately held ("Free") stocks 3/
						Stocks owned by CCC 2/	Under loan 2/	Total	
					- - - 1,000 cwt. - - -				
1965	9,813	184	9,997	403	8,239	614	7	621	7,618
1966	14,362	5	14,367	119	8,511	140	92	232	8,279
1967	16,352	2	16,354	39	6,784	82	4	86	6,698
1968	23,640	640	24,280	6,320	16,211	6,087	238	6,325	9,886
1969	22,671	1,841	24,512	2,993	16,446	6,407	10	6,417	10,029
1970	20,787	733	21,520	3,528	18,634	9,329	138	9,467	9,167
1971	31,235	107	31,342	1,214	11,434	2,720	27	2,747	8,687
1972	22,926	---	22,926	1	5,139	148	---	148	4,991
1973	19,146	---	19,146	---	7,842	---	---	---	7,842
1974	9,256	---	9,256	---	7,057	---	4	4	7,053
1975 4/	21,477	1,781	23,258	19,187	36,875	19,187	---	19,187	17,688
1976 4/	23,425	608	24,033	8	40,501	18,610	5/111	18,721	21,780
1977 6/	19,538	---	19,538						

1/ Includes purchase agreements through 1963 marketing year and direct purchases thereafter. 2/ May include small quantities of new-crop rice in last few years. 3/ Derived by subtracting CCC stocks and loans outstanding from total carryover. 4/ Based on operating reports, prior years based on fiscal reports. 5/ Under current loan 64,000 cwt.; under resale 47,000 cwt. 6/ Through March 15th.

Table 5.--Rice, rough: Acreage, yield and production, by States, 1976 and 1977

State	Acreage				Yield per harvested acre		Production	
	Planted		Harvested					
	1976	1977 <u>1</u> / <sub>2</sub>	1976	1977 <u>1</u> / <sub>2</sub>	1976	1977 <u>1</u> / <sub>2</sub>	1976	1977 <u>1</u> / <sub>2</sub>
	- - - <u>1,000 acres</u> - - -				- <u>Pounds</u> -		- <u>1,000 cwt.</u> -	
Arkansas	850.0	840.0	847.0	837.0	4,770	4,230	40,362	35,396
California	400.0	310.0	399.0	308.0	5,520	5,810	22,017	17,913
Louisiana	570.0	480.0	568.0	475.0	3,910	3,670	22,203	17,445
Mississippi	145.0	112.0	144.0	111.0	4,200	4,000	6,048	4,440
Missouri	14.0	17.0	14.0	17.0	4,200	3,700	588	629
Texas	510.0	502.0	508.0	501.0	4,810	4,670	24,430	23,400
Total United States	2,489.0	2,261.0	2,480.0	2,249.0	4,663	4,412	115,648	99,223

1/ Preliminary.

Table 6.--Rice: Acreage allotments, by States, 1974-78

States	Apportionment			
	1974	1975	1976 and 1977	1978
	- - - <u>Acres</u> - - -			
Arizona	291	250	3	---
Arkansas	507,047	435,322	434,630	434,941
California	380,921	327,037	326,568	326,540
Florida	1,216	1,044	1,012	950
Illinois	26	22	0	0
Louisiana	603,606	518,222	517,789	517,902
Mississippi	59,310	50,921	50,849	50,767
Missouri	6,046	5,191	5,185	4,964
North Carolina	48	41	41	41
Oklahoma	189	163	163	163
South Carolina	3,617	3,105	3,009	2,746
Tennessee	657	564	563	563
Texas	536,645	460,734	460,188	460,308
National Reserve	381	300	0	115
United States	2,100,000	1,802,916	1,800,000	1,800,000

Agriculture Stabilization and Conservation Service.

Table 7.--Rice: Percent of production by class, and States, 1974-77

Class and State	1974	1975	1976	1977
<u>All Classes</u>				
Long grain	53.3	49.5	60.6	62.7
Medium grain	36.8	40.7	31.8	26.5
Short grain	9.9	9.8	7.6	10.8
Total United States	100.0	100.0	100.0	100.0
<u>Long Grain</u>				
Arkansas	41.9	46.2	46.4	45.8
Louisiana	13.6	9.4	11.5	10.1
Mississippi	7.4	10.3	8.6	7.0
Texas	36.5	33.2	33.0	36.3
Minor States	.6	.9	.5	.8
California	---	---	---	---
Total	100.0	100.0	100.0	100.0
<u>Medium Grain</u>				
Arkansas	16.8	18.3	18.2	22.9
Louisiana	38.5	36.5	38.5	42.4
Mississippi	.1	.1	.1	.3
Texas	8.2	7.4	3.7	3.2
Minor States	.5	.3	.6	.4
California	35.9	37.4	38.9	30.8
Total	100.0	100.0	100.0	100.0
<u>Short Grain</u>				
Arkansas	6.4	14.8	12.6	8.5
Minor States	.1	.5	---	---
California	93.5	84.7	87.4	91.5
Total	100.0	100.0	100.0	100.0

Source: Annual production reports from ESCS annual Crop Summary.

Table 8.--Rice: Stocks, rough and milled, United States, for selected dates, 1973-78 1/

Year	Rough					Milled				
	On farms	At mills	In warehouses	In ports	Total	At mills	In warehouses	In ports	Total	
	or in farm	and in	(not	or in	all	and in	(not	or in	all	
	warehouses	attached	attached	transit	positions	attached	attached	transit	positions	
	warehouses	warehouses	to mills)			warehouses	to mills)			
	- - - 1,000 cwt. - - -					- - - 1,000 cwt. - - -				
	January 1					January 1				
1973	4,714	13,703	30,427	---	48,844	1,787	426	2,086	4,299	
1974	7,729	13,651	30,783	1	52,164	2,650	127	1,117	3,894	
1975	13,608	15,177	39,769	160	68,714	2,959	634	699	4,292	
1976 2/	24,713	14,597	51,736	---	91,046	2,259	1,522	785	4,566	
1977 2/	21,006	16,830	61,263	1,049	100,148	2,971	261	1,111	4,343	
1978 2/	8,269	15,786	50,822	899	75,776	2,860	503	3,038	6,401	
	April 1					April 1				
1973	1,476	9,142	13,638	11	24,267	3,479	52	1,354	4,885	
1974	1,536	10,048	15,113	14	26,711	2,459	12	2,783	5,254	
1975	2,902	10,579	20,823	24	34,328	2,961	22	1,286	4,269	
1976 2/	12,800	11,717	38,697	67	63,281	3,232	245	1,626	5,103	
1977 2/	6,761	15,326	45,266	1,022	68,375	3,161	260	2,265	5,686	
	August 1					August 1				
1973	94	1,931	914	---	2,939	1,389	21	196	1,606	
1974	77	2,589	1,278	10	3,954	2,258	22	523	2,803	
1975	63	1,455	2,462	70	4,050	1,589	58	517	2,164	
1976 2/	657	5,850	24,829	9	31,345	2,380	271	1,241	3,892	
1977 2/	709	6,718	25,021	903	33,351	3,321	134	1,701	5,156	

1/ These estimates do not include stocks located in States outside the major producing States of Missouri, Mississippi, Arkansas, Louisiana, Texas, and California. 2/ Preliminary.

Table 9.--Rice, rough: Price support activity by states, 1977 crop as of February 28, 1978

State	Placed under loan			Loans	
	Farms	Warehouses	Total	redeemed	outstanding
	- - - 1,000 cwt. - - -				
Arkansas	347	9,742	10,089	3,035	7,054
Louisiana	232	53	285	167	118
Texas	238	5,301	5,539	2,370	3,169
Mississippi	539	34	573	287	286
Missouri	---	---	---	---	---
South	1,356	15,130	16,486	5,859	10,627
California	34	3,018	3,052	383	2,669
United States	1,390	18,148	19,538	6,242	13,296

Source: Agriculture Stabilization and Conservation Service, USDA.



Table 10.--Rice: Rough milled and heads produced by class and State, 1971-76

Year beginning August	ROUGH RICE MILLED				MILLED HEADS PRODUCED <sup>1/</sup>			
	Long grain	Medium grain	Short grain	Total <sup>2/</sup>	Long grain	Medium grain	Short grain	Total <sup>2/</sup>
	- - - 1,000 cwt. - - -							
	Arkansas <sup>3/</sup>							
1971	20,502.7	4,609.6	469.5	25,581.8	12,656.7	3,214.0	117.1	15,987.8
1972	17,428.9	5,570.7	148.1	23,147.7	10,522.8	3,560.4	91.4	14,174.6
1973	14,660.5	6,818.2	183.9	21,662.6	9,007.8	4,438.1	113.9	13,559.8
1974	23,939.4	7,336.6	372.7	31,648.7	13,317.8	4,575.1	167.4	18,060.3
1975	23,460.0	7,645.3	1,027.7	32,133.0	13,506.9	4,490.1	642.3	18,639.3
1976	29,525.9	5,912.2	894.3	36,332.4	16,780.4	3,458.7	540.7	20,779.8
	Louisiana							
1971	5,312.9	11,275.7	---	16,588.6	2,959.8	7,286.6	---	10,246.4
1972	4,099.5	10,980.4	---	15,079.9	2,183.9	6,727.1	---	8,911.0
1973	3,363.7	11,717.4	---	15,081.1	1,741.1	6,941.9	---	8,683.0
1974	7,621.2	13,928.2	---	21,549.4	4,084.6	9,139.7	---	13,224.3
1975	4,310.5	9,937.8	---	14,248.3	2,436.1	5,996.0	---	8,432.1
1976	5,516.9	12,872.1	---	18,389.0	3,124.1	7,930.4	---	11,054.5
	Texas							
1971	24,157.0	4,257.8	---	28,414.8	14,651.4	3,227.8	---	17,879.2
1972	21,055.3	5,251.0	---	26,306.3	12,956.8	3,396.2	---	16,353.0
1973	20,710.8	6,310.9	---	27,021.7	12,764.9	3,801.4	30.9	16,597.2
1974	26,524.4	2,382.3	---	28,906.7	16,148.2	1,539.4	---	17,687.6
1975	23,448.8	3,510.4	---	26,959.2	13,923.1	2,266.8	---	16,189.9
1976	29,715.1	1,467.5	---	31,182.6	19,086.2	899.1	---	19,985.3
	Total South							
1971	49,972.6	20,143.1	469.5	70,585.2	30,267.9	13,728.4	117.1	44,113.4
1972	42,583.7	21,802.1	148.1	64,533.9	25,663.5	13,683.7	91.4	39,438.6
1973	38,735.0	24,846.5	183.9	63,765.4	23,513.8	15,181.4	144.8	38,840.0
1974	58,085.0	23,647.0	372.7	82,104.8	33,550.6	15,254.2	167.4	48,972.2
1975	51,219.3	21,093.5	1,027.7	73,340.5	29,866.1	12,752.9	642.3	43,261.3
1976	64,757.9	20,251.8	894.3	85,904.0	38,990.7	12,288.2	540.7	51,819.6
	California							
1971	---	9,311.8	8,027.6	17,339.4	---	6,648.5	4,584.9	11,233.4
1972	---	12,182.5	8,672.6	20,855.1	---	9,056.7	5,385.0	14,441.7
1973	---	11,695.8	9,978.6	21,674.4	---	7,769.7	6,080.1	13,849.8
1974	---	13,842.0	9,679.3	23,521.4	---	9,523.4	6,144.3	15,667.7
1975	---	14,498.8	7,978.6	22,477.4	---	9,521.1	4,815.1	14,336.2
1976	---	11,098.3	8,683.2	19,781.5	---	7,215.9	4,864.9	12,080.8
	Total United States							
1971	49,972.6	29,454.9	8,497.1	87,924.6	30,267.9	20,376.9	4,702.0	55,346.8
1972	42,583.7	33,984.6	8,820.7	85,389.0	25,663.5	22,740.4	5,476.4	53,880.3
1973	38,735.0	36,542.3	10,162.5	85,439.8	23,513.8	22,951.1	6,224.9	52,689.8
1974	58,085.0	37,489.0	10,052.0	105,626.1	33,550.6	24,777.6	6,311.7	64,639.9
1975	51,219.3	35,592.3	9,006.3	95,817.9	29,866.1	22,274.0	5,457.4	57,597.5
1976	64,757.9	31,350.1	9,577.5	105,685.5	38,990.7	19,504.1	5,405.6	63,900.4

<sup>1/</sup> Includes brown rice.<sup>2/</sup> Total may not add due to rounding.<sup>3/</sup> Mills at Memphis, Tennessee, and Cleveland, Mississippi, are included in Arkansas.

Data compiled from reports of the Rice Millers' Association and the California Market News Service.

Table 11.--Rice, rough: Monthly prices received by farmers,  
by States and United States, 1972-78

Year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Season average
													1/
- - - Dollars per cwt. - - -													
Arkansas													
1972	5.70	6.70	7.20	7.60	8.20	8.50	8.50	8.50	8.50	8.80	8.80	2/	7.20
1973	2/	13.70	15.30	16.00	16.00	16.00	18.00	18.50	16.50	17.00	17.50	2/	15.30
1974	10.55	11.15	11.50	11.75	10.90	11.50	11.75	12.00	11.75	11.75	11.75	2/	11.40
1975	9.05	8.95	8.70	8.60	8.60	8.25	7.50	7.50	7.45	7.45	7.45	7.45	8.54
1976 3/	6.19												7.25
Louisiana													
1972	5.20	6.00	6.80	7.30	7.60	8.00	8.20	8.40	8.80	8.80	2/	2/	6.40
1973	10.80	12.30	13.30	16.80	14.80	15.50	16.00	16.10	14.10	2/	2/	11.50	13.45
1974	10.65	10.55	11.05	11.70	11.50	10.75	11.20	10.90	10.65	10.65	10.65	10.00	11.00
1975	9.70	9.30	9.00	8.60	8.40	8.10	7.70	5.80	7.10	8.00	6.65	2/	8.38
1976 3/	6.11												6.53
Mississippi													
1972	5.50	5.50	6.00	6.80	7.10	7.50	7.80	7.80	7.60	7.60	8.50	9.00	7.00
1973	2/	2/	14.50	18.00	17.50	16.50	18.00	18.00	14.00	2/	2/	2/	17.20
1974	2/	10.10	10.45	10.55	9.90	10.00	10.20	10.45	10.00	10.00	2/	2/	10.20
1975	9.50	9.10	8.60	8.75	8.80	8.85	8.80	6.30	7.40	7.30	2/	2/	8.42
1976 3/	6.03												6.79
Texas													
1972	5.50	6.20	6.90	7.10	7.50	7.50	8.00	8.20	8.50	8.50	8.70	11.00	6.44
1973	11.00	13.70	14.90	16.60	15.60	15.80	16.70	16.70	17.00	17.50	17.50	12.00	14.80
1974	9.80	10.60	11.20	11.80	11.00	10.55	11.35	10.75	11.00	11.00	11.00	2/	10.90
1975	10.10	9.80	9.55	8.50	8.20	7.00	6.85	5.15	6.95	6.25	6.00	2/	8.81
1976 3/	7.03												7.21
United States 4/													
1972	5.34	6.37	7.05	7.42	7.64	7.84	8.14	8.26	8.51	8.56	8.74	10.80	6.73
1973	10.90	13.30	14.80	16.70	15.50	15.80	16.90	17.20	15.90	17.20	17.50	11.90	13.80
1974	10.20	10.90	11.30	11.60	10.90	10.80	11.30	11.10	11.00	11.10	11.20	10.00	11.20
1975	9.83	9.19	8.87	8.59	8.51	7.95	7.54	6.17	7.15	7.06	6.82	7.45	8.35
1976	6.65	6.56	6.48	6.46	6.57	6.79	6.87	6.81	6.95	7.30	7.24	6.87	7.02
1977	8.02	9.13	8.92	10.20	11.00	10.70	11.40						9.36

1/ State and U.S. season average prices include an allowance for unredeemed loans and purchases by the Government, valued at the average loan rate, by States. Monthly prices do not include this allowance.

2/ Insufficient sales.

3/ Discontinued reporting monthly rice prices by State.

4/ California is excluded in the monthly averages but is included in the U.S. season average.

5/ Preliminary.

Table 12.--Rice: Retail prices in leading cities of the United States,  
August-July, 1967-78

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
- - - - Dollars per pound - - - -													
Long grain													
1967	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
1968	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
1969	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23
1970	.23	.23	.23	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
1971	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
1972	.24	.24	.24	.24	.24	.25	.25	.26	.26	.27	.27	.28	.25
1973	.28	.30	.34	.46	.49	.50	.52	.52	.53	.53	.54	.53	.46
1974	.53	.52	.51	.49	.48	.47	.47	.48	.47	.47	.47	.47	.49
1975	.47	.47	.46	.46	.46	.45	.45	.44	.44	.44	.44	.44	.45
1976	.43	.42	.42	.41	.41	.41	.40	.40	.40	.39	.40	.40	.41
1977	.40	.40	.40	.40	.42	.44							
Short grain													
1967	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19
1968	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19
1969	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19
1970	.19	.19	.19	.19	.19	.19	.20	.20	.20	.20	.20	.20	.20
1971	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
1972	.20	.20	.20	.20	.20	.20	.21	.22	.23	.23	.24	.24	.21
1973	.24	.25	.28	.37	.41	.42	.43	.44	.45	.45	.45	.45	.39
1974	.44	.45	.44	.42	.42	.41	.42	.41	.41	.41	.41	.40	.42
1975	.41	.41	.41	.41	.41	.40	.38	.38	.38	.38	.38	.38	.39
1976	.37	.37	.37	.37	.36	.36	.35	.35	.35	.35	.35	.35	.36
1977	.35	.35	.35	.36	.36	.40							

Compiled from reports of Bureau of Labor Statistics, Department of Labor.

Table 13.--Prices: Arkansas brewers rice and New York brewers corn grits,  
August-July 1975-78

Month	Arkansas brewers rice			New York brewers corn grits		
	1975/76	1976/77	1977/78	1975/76	1976/77	1977/78
- - - - Dollars per cwt. - - - -						
August	7.10	5.75	5.50	9.88	8.97	7.06
September	7.40	5.75	5.50	9.77	8.91	6.80
October	7.50	5.75	5.50	8.77	8.28	6.99
November	6.60	5.75	5.50	8.28	7.62	7.18
December	6.20	5.65	6.50	8.17	7.80	7.27
January	6.25	5.40	6.90	7.94	7.80	7.16
February	5.75	5.10	8.00	8.04	7.92	7.32
March	5.80	5.10		8.46	8.05	
April	5.80	5.60		8.76	8.02	
May	5.85	6.00		8.95	7.72	
June	5.85	6.00		9.14	7.59	
July	5.75	5.50		9.20	7.11	
August-July average	6.30	5.60		8.78	7.98	

Source: Rice Market News and Milling and Baking News.





Table 15.--Rice, milled U.S. f.o.b. mills: Average price of Louisiana and California head rice at milling centers, by months, 1973-78

Year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Average
-- -- -- Dollars per cwt. bagged -- -- --													
Southwest Louisiana, Long Grain 1/													
1973	20.20	24.90	28.35	33.00	33.00	33.50	33.50	33.50	33.50	33.50	30.00	28.10	30.40
1974	26.67	20.10	20.19	21.00	22.00	21.50	21.50	21.50	21.50	20.00	20.90	21.50	21.55
1975	20.55	18.30	18.00	18.00	17.60	17.40	16.50	15.50	15.30	16.60	16.50	16.25	17.20
1976	14.70	13.85	14.00	13.75	13.60	13.25	13.50	13.95	15.65	16.45	16.25	16.25	14.60
1977 2/	15.95	16.20	17.75	22.10	24.15	24.00	24.00						
Southwest Louisiana, Medium Grain 1/													
1973	17.10	19.60	22.65	29.50	29.85	30.00	30.00	30.00	30.00	30.00	25.00	23.00	26.40
1974	22.00	18.60	19.10	20.00	20.70	20.65	20.75	20.50	20.50	19.00	19.30	19.50	20.05
1975	18.90	16.80	16.75	17.00	16.70	15.60	14.75	13.50	13.95	15.50	15.50	15.25	15.85
1976	13.70	12.85	13.00	12.30	11.90	11.25	11.70	12.20	14.10	15.60	15.50	15.25	13.30
1977 2/	14.60	14.95	16.30	20.75	21.85	21.50	21.50						
California, Medium Grain 3/													
1973	13.00	16.75	18.50	24.00	27.50	27.50	27.50	29.50	29.50	29.50	29.50	29.50	25.20
1974	29.50	28.20	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.70
1975	26.25	26.25	24.25	24.25	24.25	23.50	22.70	19.65	18.70	19.00	19.00	16.80	22.05
1976	16.80	16.80	16.60	16.60	16.60	16.60	16.60	16.60	16.60	17.00	17.30	17.40	16.80
1977 2/	17.40	17.40	18.10	20.55	23.00	23.60	23.60						
California, Short Grain 3/													
1973	13.00	16.75	18.50	22.25	26.00	26.00	28.00	28.00	28.00	28.00	28.00	28.00	24.20
1974	28.00	26.80	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.40
1975	25.00	25.00	23.00	23.00	23.00	22.25	21.40	17.85	17.15	17.50	17.50	15.15	20.65
1976	15.15	15.15	14.85	14.75	14.75	14.75	14.75	14.75	14.95	15.50	16.05	16.25	15.15
1977 2/	16.25	16.25	16.65	19.20	22.00	22.00	22.00						

1/ U.S. No. 2--breaks not to exceed 4 percent. 2/ Preliminary. 3/ U.S. No. 1.

Agricultural Marketing Service, Grain Division.

Table 16.--U.S. milled rice exports by type of sale, year beginning July, 1963-76

Year beginning July	Commercial	Under Government Programs				Total exports	
		Title I	Title II	Aid 3/	Total		
		<u>1/</u>	<u>2/</u>				
			- - - <u>1,000 metric tons</u> - - -				
1963	713	674	---	30	704	1,417	
1964	725	566	---	1	567	1,292	
1965	925	359	---	91	450	1,375	
1966	953	828	---	-1	827	1,780	
1967	1,104	734	---	25	759	1,863	
1968	748	984	9	6	999	1,747	
1969	844	940	7	3	950	1,794	
1970	602	923	---	152	1,075	1,677	
1971	499	814	248	142	1,204	1,703	
1972	821	964	33	123	1,120	1,941	
1973	972	606	---	6	612	1,584	
1974	1,548	741	6	<u>4/</u>	747	2,295	
1975	1,083	499	---	5	504	1,587	
1976 Prel. <u>5/</u>	1,543	661	25	<u>4/</u>	686	2,229	

1/ Includes local currency, convertible local currency, dollar credit, and private trade. 2/ Includes Government-to-Government, world food, and voluntary relief. 3/ Mutual Security Aid. 4/ Less than 500 metric tons. 5/ Fiscal year has been changed from July-June to October-September.

Foreign Demand and Competition Division, ESCS.

Table 17.--U.S. milled rice exports under Government Programs by country of destination, 1972-76

Country of destination	Year beginning (July)				October*
	1972	1973	1974	1975	1976 <u>1/</u>
	<u>- - - 1,000 metric tons - - -</u>				
Guinea	---	---	13	7	13
Honduras	---	---	11	---	<u>2/</u>
India	---	---	---	20	3
Indonesia	155	---	---	---	374
Israel	---	---	---	3	---
Ivory Coast	<u>2/</u>	---	---	---	---
Khmer (Cambodia)	73	285	217	---	---
Korea, Republic of	427	7	208	147	61
Liberia	---	---	---	---	<u>2/</u>
Philippines	75	---	---	---	---
Portugal	---	---	---	47	64
Syria	---	---	14	7	35
Tanzania	---	---	15	6	18
Relief of Dacca (Bangladesh)	---	---	269	247	64
Vietnam, South	382	320	---	---	---
Western Africa, N.E.C.	---	---	---	2	---
Zaire	---	---	---	18	3
Other	8	---	---	---	51
Total	1,120	612	747	504	686

1/ Preliminary. 2/ Less than 500 metric tons. \*Fiscal year has been changed from July-June to October-September.

Foreign Demand and Competition Division, ESCS.

Table 18.--Rice: Export prices at Thailand by months, white f.o.b. Bangkok, 1973-78 1/

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
Dollars per metric ton - - - -													
100% 1st grade													
1973	---	---	---	---	---	567	595	622	654	650	622	549	608
1974	551	544	528	478	455	422	429	421	425	412	376	362	450
1975	382	391	385	359	345	316	278	275	270	270	264	266	317
1976	270	295	300	290	290	287	284	291	284	289	292	300	289
1977 2/	306	306	306	321	352	368	402						
100% 2nd grade													
1973	---	---	---	---	---	552	580	608	639	635	608	534	594
1974	536	529	514	468	445	412	419	411	415	402	361	347	438
1975	368	376	370	344	330	296	261	260	260	260	254	256	303
1976	259	280	285	275	275	272	270	275	267	273	280	285	275
1977 2/	290	290	291	307	338	352	388						
5% broken													
1973	---	---	---	---	---	541	575	598	629	625	596	519	583
1974	521	514	499	452	430	398	404	396	400	388	344	327	423
1975	348	358	353	330	307	274	253	248	246	246	242	244	287
1976	243	266	270	259	258	259	257	261	252	257	264	272	260
1977 2/	275	275	278	294	324	338	374						

1/ Milled rice, includes export premium, export tax and cost of bags. Packed in bags of 100 kgs. net.

2/ Preliminary.

AMS. Grain Division, from weekly Bulletins of San Francisco Market News.

Table 19.--Rice, rough: Acreage, yield and production in specified countries, average 1971-75, annual 1976 and 1977 1/

CONTINENT AND COUNTRY	2/AREA		3/1977	AVE., 1971-75		YIELD		3/1977	PRODUCTION		3/1977
	AVE., 1971-75	1976		THOUSAND HA	THOUSAND HA	MT PER HA	TONS PER HA		THOUSAND MT	THOUSAND MT	
NORTH AMERICA:											
COSTA RICA	56	63	55	2.04	2.37	2.36	114	149	130		
CUBA	194	220	220	2.31	2.45	2.45	449	538	538		
DOMINICAN REPUBLIC	68	66	67	3.22	4.16	4.07	219	274	273		
EL SALVADOR	13	14	13	3.67	2.53	2.40	47	35	32		
GUATEMALA	22	18	17	2.78	2.44	2.35	62	44	40		
HAITI	76	76	76	1.10	.85	1.11	83	65	85		
HONDURAS	13	16	24	1.75	1.59	1.20	23	25	30		
JAMAICA AND DEP	1	1	1	1.40	1.00	1.00	1	1	1		
MEXICO	175	155	190	2.78	3.19	3.10	486	495	600		
NICARAGUA	30	27	35	3.00	2.22	2.44	89	60	87		
PANAMA	107	97	115	1.47	1.49	1.61	157	145	185		
TRINIDAD-TOBAGO	6	8	8	2.08	2.75	3.00	13	22	24		
UNITED STATES	903	1,004	910	5.07	5.23	4.95	4,579	5,246	4,501		
TOTAL	1,663	1,765	1,731	3.80	4.02	3.77	6,323	7,100	6,526		
SOUTH AMERICA:											
ARGENTINA	84	91	95	3.65	3.52	3.48	306	320	331		
BOLIVIA	53	72	63	1.65	1.57	1.60	87	113	101		
BRAZIL	5,066	5,400	5,200	1.37	1.48	1.50	6,950	8,000	7,800		
CHILE	22	36	33	3.10	3.33	3.26	68	120	108		
COLOMBIA	309	366	341	4.06	4.23	3.79	1,255	1,549	1,291		
ECUADOR	94	125	95	2.41	2.32	2.49	227	290	237		
GUYANA	102	97	136	1.99	1.62	2.45	202	158	333		
PARAGUAY	21	28	38	2.14	2.04	1.97	45	57	75		
PERU	124	129	125	4.04	4.49	4.54	501	579	567		
SURINAM	43	48	48	3.57	3.57	3.64	152	171	175		
URUGUAY	42	57	56	3.98	4.00	4.40	166	228	251		
VENEZUELA	104	93	148	2.37	2.98	3.38	248	277	500		
TOTAL	6,062	6,542	6,378	1.68	1.81	1.85	10,206	11,862	11,768		
EUROPE:											
FRANCE	16	8	10	3.37	3.50	1.60	55	28	16		
ITALY	182	182	187	5.21	4.98	4.62	949	907	864		
TOTAL EC	198	190	197	5.06	4.92	4.67	1,003	935	880		
GREECE	17	19	19	5.13	4.43	5.00	89	84	95		
PORTUGAL	37	22	34	4.04	4.06	3.47	151	89	118		
SPAIN	61	64	64	6.05	6.34	5.94	368	406	380		
TOTAL WESTERN EUROPE	314	295	314	5.13	5.13	4.69	1,611	1,515	1,473		
BULGARIA	16	18	18	3.84	3.87	3.87	63	70	70		
HUNGARY	27	27	27	2.36	1.19	1.89	64	32	51		
ROMANIA	25	17	17	2.29	3.35	3.18	56	57	54		
YUGOSLAVIA	8	8	8	4.18	6.00	4.75	32	48	38		
TOTAL EASTERN EUROPE	76	70	70	2.84	2.95	3.04	215	207	213		
TOTAL EUROPE	390	365	384	4.69	4.72	4.39	1,826	1,721	1,686		
U.S.S.R. (EUROPE AND ASIA)	454	524	524	3.86	3.82	4.20	1,753	2,000	2,200		
AFRICA:											
ALGERIA	1	1	1	2.80	2.00	2.00	3	2	2		
ANGOLA	21	20	20	1.22	1.23	1.23	25	25	25		
CHAD	52	50	50	.70	.80	.80	37	40	40		
EGYPT	460	453	484	5.27	5.08	5.21	2,426	2,300	2,519		
GAMBIA	35	40	45	1.52	1.25	1.22	53	50	55		
GHANA	68	81	80	1.05	.80	.75	72	64	60		
GUINEA	516	710	710	.74	.56	.50	384	400	400		
GUINEA-BISSAU	34	38	38	.96	.92	.94	33	35	35		
IVORY COAST	325	450	425	1.18	.95	.95	384	427	403		
LIBERIA	184	200	200	1.05	1.15	1.15	193	230	230		
MALAGASY REPUBLIC	1,012	1,050	1,050	1.82	1.67	1.79	1,837	1,750	1,875		
MALI	150	152	150	.85	1.15	1.17	128	175	175		
MOROCCO	4	5	6	5.08	5.45	6.00	20	27	36		
MOZAMBIQUE	73	65	65	1.47	1.05	1.07	107	68	70		
NIGERIA	281	310	325	1.83	1.96	2.03	513	609	660		
SENEGAL	75	81	85	1.17	1.38	.73	88	112	62		
SIERRA LEONE	361	390	390	1.40	1.49	1.49	506	580	580		
TANZANIA	164	280	285	1.57	1.54	1.54	258	430	440		
UPPER VOLTA	37	41	42	.92	.98	.95	34	40	40		
ZAIRE	291	365	370	.77	.80	.79	225	291	292		
TOTAL	4,145	4,782	4,821	1.77	1.60	1.66	7,325	7,655	8,000		
ASIA:											
AFGHANISTAN	206	210	210	1.92	2.18	2.19	396	457	460		
BANGLADESH	9,771	9,842	10,085	1.72	1.79	1.94	16,810	17,644	19,602		
BURMA	4,835	4,984	5,027	1.73	1.87	1.77	8,384	9,312	8,900		
CAMBODIA	1,102	1,400	1,400	1.32	1.29	1.14	1,451	1,600	1,600		
CHINA, PEOPLES REP	34,000	35,000	36,000	3.52	3.50	3.54	120,800	125,500	127,500		
CHINA, REP OF (TAIWAN)	761	786	790	4.20	4.53	4.48	3,199	3,560	3,542		
HONG KONG	3	2	2	2.04	2.00	2.00	7	4	4		
INDIA	38,019	38,606	39,800	1.70	1.66	1.87	64,469	64,245	74,324		
INDONESIA	8,326	8,369	8,200	2.54	2.78	2.73	21,169	23,301	22,353		
IRAN	300	320	325	3.53	3.99	3.23	1,058	1,276	1,051		
IRAQ	66	54	66	2.60	3.02	3.02	172	163	199		
JAPAN	2,689	2,779	2,757	5.61	5.30	5.94	15,096	14,716	16,368		
KOREA NORTH	705	760	760	4.74	5.13	5.13	3,340	3,900	3,900		
KOREA, REP OF	1,197	1,215	1,220	4.94	5.96	6.60	5,912	7,243	8,056		
LAOS	672	680	680	1.29	1.25	1.18	865	850	800		
MALAYSIA (PENINSULAR)	575	578	599	2.92	3.02	2.87	1,675	1,748	1,722		
NEPAL	1,225	1,250	1,265	1.99	1.92	2.11	2,433	2,404	2,670		
PAKISTAN	1,553	1,700	1,710	2.30	2.32	2.37	3,573	3,953	3,967		
PHILIPPINES	3,353	3,548	3,563	1.63	1.82	1.93	5,453	6,456	6,890		
SABAH	48	53	53	2.41	2.37	2.37	116	125	125		
SARAWAK	122	117	120	1.23	1.48	1.46	149	173	175		
SAUDI ARABIA	1	1	1	3.00	3.00	3.00	3	3	3		
SRI LANKA (CEYLON)	642	500	740	2.11	2.51	2.31	1,355	1,253	1,707		
SYRIA	1	1	1	4.00	2.00	2.00	2	2	2		
THAILAND	7,805	8,500	8,600	1.79	1.86	1.74	14,003	15,800	15,000		
TURKEY	58	54	70	4.00	4.50	4.40	233	243	308		
VIETNAM, SOC. REP.	3,324	5,300	5,310	2.12	2.22	2.12	7,057	4/11,782	4/11,256		
VIETNAM, SOV.	1,638	- - -	- - -	2.35	- - -	- - -	3,854	- - -	- - -		
TOTAL	123,295	127,549	129,354	2.46	2.49	2.57	303,031	317,911	332,484		
OCEANIA:											
AUSTRALIA	61	92	90	5.81	5.76	5.44	354	530	490		
TOTAL	61	92	90	5.81	5.76	5.44	354	530	490		
WORLD TOTAL	136,071	141,619	143,282	2.43	2.46	2.53	330,817	348,779	363,154		

1/ The world rice harvest stretches over 6-8 months. Thus, 1976 production represents the crop harvested in late 1976 and early 1977 in the Northern Hemisphere, with estimates for the crop to be harvested in early 1977 in the Southern Hemisphere. 2/ Harvested area as far as possible. 3/ Preliminary. 4/ Production has been combined for North and South Vietnam.

Foreign Agricultural Service. Prepared or estimated on the basis of official statistics of foreign governments, reports of U.S. Agricultural Attaches and other foreign source materials.

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RICE

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UNITED STATES DEPARTMENT OF AGRICULTURE  
WASHINGTON, D.C. 20250



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RS-31

MARCH 1978

### Weights, Measures and Conversion Factors

#### Bushel weights:

Wheat & soybeans = 60 lbs.  
Corn, sorghum & rye = 56 lbs.  
Barley (grain) = 48 lbs.: malt = 34 lbs.  
Oats = 32 lbs.

#### 1,000 kilograms

36.7437 bushels wheat or soybeans  
39.3679 bushels corn, sorghum, or rye  
45.9296 bushels barley  
68.8944 bushels oats

#### Bushels to metric tons:

Wheat & soybeans = bushels x .027216  
Barley = bushels x .021772  
Corn, sorghum, rye = bushels x .025400  
Oats = bushels x .014515

#### Area:

1 Acre = .404694 hectares  
1 Hectare = 2.4710 acres

#### Yields:

Wheat = bushels per acre x 0.6725 = quintals per hectare  
Rye, corn = bushels per acre x 0.6277 = quintals per hectare  
Barley = bushels per acre x 0.5380 = quintals per hectare  
Oats = bushels per acre x 0.3587 = quintals per hectare

#### 1 Metric ton equals:

2204.622 lbs.  
22.046 hundredweight  
10 quintals

### Rice Factors

1 cwt. = 2.22 bushels = .617 barrels = .0453 metric tons  
1 bu. = .45 cwt. = .277 barrels = .0204 metric tons  
1 barrel = 3.6 bu. = 1.62 cwt. = .0734 metric tons  
1 metric ton = 48.992 bu. = 13.609 barrels = 22.046 cwt.

#### Milling rates

bu. per acre x 0.5044 = quintals per hectare  
lbs. per acre x 0.01121 = quintals per hectare  
Rough to brown = 82%  
Rough to milled = 72%